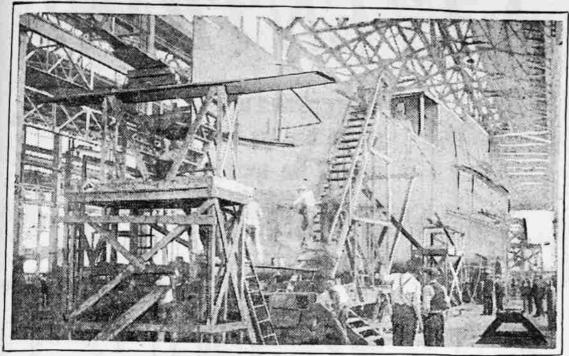
Trucks and **Tractors**

AUTOMOBILE SECTION

Pleasure Cars Accessories

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READY FOR THE WATER-AN "EAGLE" PRACTICALLY COMPLETED EXCEPT FOR PLAC-

Ford's submarine chaser plant was built in the record time of three months. It will soon be pro-

WAR WEAPON

Aid has come to railways and steam-

when their combined attack emed hopeless to break the strongly ntrenched forces - of freight conges on, an ally appears. The motor truck s taking part in the battle.

The normal business increase of a prosperous country overwhelmed available freight capacities. A misaken policy denied railroad neces sary revenues to bring antedated facame the world war which added normous additional haulage to conitions already complicated. As folows when sound economic law is vio-ated, the public is the victim. Mr ommon People is paying the penalty delay and increasing prices.

Railways are overtaxed. So are teamships. Diversion of freight to he highways is the big alternative. Motor trucks are the only possible so-

On the basis of the first into war use in Europe Forty per cent of our population.

Outside the second of the se 185,000 new trucks for domestic Ine smallest of these trucks has aid of the trailer.

readlly be understood. Allowing an tired, food acreage would be saved for go a little further. average of ten tons a day per truck, an estimate which is conservative since many trucks in short haul work millions of tons of freight moved per

The truck is a war need. It is also plied within peace uses becomes a weapon of warfare. Business must have trucks or bear expensive delays. Purveyors in war munitions must have riculture have uncarthed many cases motor trucks or they cannot live up of improved distribution by the use to scheduled deliveries. The public of trucks. must be on the receiving end of mo-

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gion of Huns. In order to send to freight and express shipments.

France urgently needed cargoes, the The recent advance of 25 per cent

Food there must be, and since its crease in long hauls. mounting cost imposes a hardship on Far-sighted users of motor trucks all, the greatest public interest in are being educated to possible econotrucks centers in their use by far-mies in operation. Perhaps the most mers. The motor truck has come to important of these is the return loads the aid of the farmer at a time when system. This project, made to prehe is sore pressed. It gives him the vent the empty running of trucks, equivalent of man-power when he was introduced and carried to succannot hire tarmhands. A truck will cess by the Highways Transport Comreplace from two to four men. It will mittee of the Council of National De-January 1, 1918, there were 400,000 carry twice the load in half the time fense.

It will make available for other production five acres of land whose crop ping to other cities use return loads to the control of the country were the duction five acres of land whose crop ping to other cities use return loads.

three lem if all horses could be retired from they consult the telephone directory, ionths' production, there are indicathe farm. Those now used consume call up the return loads bureau in the farm that 275,000 trucks will be built yearly the product of enough acrease city to which they are going, and are

thousand will be used to replace A truck will replace four horses. It to be carried back is estimated that by the end of 1918 All this concerns the public.

This will mean not less there will be 300,000 trucks used by It is important to the father and the use. The smallest of these trucks has 200,000 horses. Farm statistics show the head of the brood should look a capacity of half at the range five acres essential to the production with new respect at the motor truck. progressing up to ten tons with the of enough fodder for each horse, 1, huge but rapid, portentous but easily The potential haulage capacity of acres freed for other needs. With all city streets. It is alike helping to win

will move as much as 100 tons per day, of the greatly increased production of food stuffs, wheat, rye, barley, oats we have a total of four and one-half corn, beef pork mutten eggs milk corn, beef, pork, mutton, eggs, milk poultry and fruit-that 2,000,000 mo tor trucks could profitably be used between farms and markets. Only a peace need. In fact, it is not too 450,000 motor trucks are now available much to say that the motor truck apfor all lines of business. This is only 22 1-2 percent of what could be ap-

Agents of the Department of Ag-

One Maryland farmer has found that tor truck delivery if it is ever to get his motor truck retires five horses relief from expensive living costs. planting wheat, corn and other crops suitable for human consumption on 35 acres of land previously used for oats and as pasture for horses.

It is not uncommon to see live stock going to market on any one of the 22 ural motor express lines now operating in Maryland out of Baltimore and

out of Washington. These trucks go to market with calves, turkeys, horses, hogs, sheep, cows, potatoes, meal, wheat, corn, aptrip they carry dry goods, machinery hauls to the railroad, and there were economy days last winter when trucks were the

Baltimore. er, brings the finished war order near-

and transportation. the foundations of new buildings. They ier and far more profitable, then deliver materials for constructing "The motor truck has proved its the building. Raw material for mak-

Where railroads have decreed that goods consigned in less than carload lots cannot be delivered in any spe- a black finish by cleaning

nal points, and warehouses

Motor trucks now move one-quar- is being moved by motor trucks beter as much tonnage as the freight tween Boston and New York, New cars of the United States. In city and York and Philadelphia, and Philadelpural districts, for the short haul or phia and Baltimore. Several promifor the extended overland delivery, the nent tire companies are shipping a truck is able infinitely to enlarge its large part of their product from Akron scope of rapid delivery.

duction. The motor truck is an in-strument for distributing that produc-ests, such as merchants and manufaction. Congested traffic constitutes a turers. Now, it may confidently be war problem. There is no way to expected that motor trucks will be opspeed up production unless sources of erated more in public service-by the communication are rapid and regular. post office within cities and on rural schedule and can make his transport-This was proved almost tragically routes, by haulage companies in inlast winter. Insufficient transporta tercity express service, and by rail-tion did more to delay our efficient roads, under control of the director of entrance into the war than could a le- railroads, in collection and delivery of

Fuel Administrator found it necessary in railroad freight rates will inevitably to suspend all manufacturing for five mean more truck use. The greatest days that he might free freight trains immediate effect will be the diverting to take to the scaboard necessary coal of much short haul freight to motor for ships.

be better for this country were the is required to feed a horse for a year system that their trucks may not come number five times as great.

In fact, there would be no food prob- back empty. To get a return load in 1918. Fifty thousand of these will to feed forty million people, or 40 put in touch with a truck owner or shipper in that city who has tonnage

the 450,000 trucks now in use can the horses in the United States re- the war and making the family wage

"Motor trucks have been used for years to a limited extent," says L. L. senger cars and trucks, "but their full the industrial pace that will even-worth for short and long distant hauls tually win the war. He has said in so was never appreciated until they were many words that efficient transportacalled upon to do what the railroads, to do. And they made good. They proved beyond all matter of doubt, that for all character of transportation needs, they are the most efficient, economical and speedy carriers available for all round commercial use.

"At the beginning of this year there were over 400,000 trucks in use in this country. Today motor trucks are moving one-quarter as much goods as all the freight cars on all our extensive ples, milk and eggs. On the return railroad systems. There is scarcely a line of business in which they are not and other products needed by farm- doing a major share of the work Many of the latter have figures transporting men, materials and merto show that the truck carries three chandise about cities, through the times as much produce as the horse, country and even across the continent The shortage of labor would have vir- at a saving in time and money which, tually climinated milk shipments from when compared with other means of this section at points calling for long transportation, represents worthwhile

"Nowhere else has the motor truck only medium of transportation that proved itself of more assistance than brought food into Washington and on the farm. By the end of the current year, there will be many thou-Every truck put into service brings sands of trucks in use by farmers. the manufacturer nearer his market. These trucks will take the place of brings the farmer nearer the consum- thousands of horses which in turn will release for agricultural purposes, miler the shipping point, facilitates rapid lions of acres of land used exclusively filling of orders, replaces much man today to raise feed for horses. One power lost by withdrawal of soldiers, motor truck on a farm will replace lessens the shortage of horses, and from two to four men which means restores gaps in organizations occas- much, especially at this time when ioned by deficiencies of labor, material farm labor is so scarce. One motor and transportation. There are instances in which the a horse-drawn wagon in half the time. truck renders a four-way service, One motor truck on a farm will make helping makers of war supplies. Such trucks haul away dirt excavated for it will do much to make farming eas-

right to a prominent place in every and the elimination of special deliving the product is their next mission. line of business endeavor, where eries Finally, the finished articles are carspeedy, dependable and economical
ried to the point of delivery.

transportation is essential." transportation is essential."

Articles of copper may be given with cified time, the truck is serving a emery paper, heating gently in a establishment in the country helpful purpose—aiding also to break bunsen of spirit flame, then im likewise, there would be pl then imup congestion at freight yards, termi- mersing for ten seconds in a solution of copper filings in dilute nitric every An astonishing amount of tonnage acid and finally heating again.

KEEP HOME PROVIDED WITH NECESSITIES AND SUPPLIES

(By the A. Kissel)
The efficiency of the Afnerican busi ness man and woman and the ability of the hundreds of thousands of work, ers now employed in speeding up America's wartime industrial work, depends on the comfort and happiness of their home. If the source of supply of necessities for household consumption and comfort is shut off, diminish ed or even delayed, the effect on the public is bound to show in decreased

The coal situation is a case in point Last winter I understand that it was due just as much to a lack of transportation equipment as to a lack of available coal that prevented fuel be- Hudson body designers have ing delivered. If other household been given full power in necessities were held up or delayed in their efforts to match Supera similar manner, the moral effect Six would be just that much greater, with body quality. The result Hence the necessity of maintaining is a full line of beautiful modthe efficiency of the American man els-ten in all-among which and woman by introducing and putting into operation those plans that insure uninterrupted delivery of goods. supplies, commodities and necessities into the home.

The adaptability and dependability most careful selection. Nothof the motor truck has been proven, ing cheap or inferior has it is the logical and most economical been allowed a place in the method of transportation. There is not a commodity grown, produced or manufactured that has not been suc cessfully hauled and delivered by the motor truck. In thousands of instances the motor truck is proving the better transportation method. The To win the war we must have pro- Heretofore motor trucks have been retaileer can deliver more goods in less time, or can extend his area of delivery, without increasing his over head expense. The manufacturer can be independent of other means of transportation, can maintain his own Communities, through co-operative transportation lines, can not only throw off the yoke which they formerly had to bear, when depending on other transportation methods, but can

> of badly needed supplies and goods. As branch lines for the railroads, the motor truck cannot be improved upon where is need right now in the United States for more trucks than can be manufactured. The question there-fore i, to make the best use of the country's present motor truck equip-ment, and this can be done only by operative methods and co-ordinated plans.

insure themselves against non-delivery

The same manner in which truck came to the railroad's rescue in helping clear congested freight depots can be applied to retail haulage and delivery. The overland transporta-tion companies, the Return Loads Bureaus, and the Rural Motor Expre to Lines-all of these activities are gaining in momentum every day and distribution.

bution into the home. nation as a whole meet its obligations delivery organization is inaugurated. in on efficient manner.

should be made without hesitation or operative delivery system, with tion in the cities and in every comsuc., should be started without unnecessary loss of time

Some Startling Results From Investigations.

To show his good faith and to help start the ball arolling, he has been investigating the project of combining local delivery systems, and consolidat ing all the delivery equipment now operated by department stores and others requiring a delivery His object is to handle all deliveries by motor truck, via a centralized system, to reduce the cost of delivery,

so that in place of the "butcher, and baker, and candlestick maker" delivering goods to the same house and on the same day via different haulage equipment, and consuming the time and labor of many drivers and helpers, one truck and one driver will bring the parcels for all three on a single

trip.
The result has been that sweeping investigations in all parts of the country have been made and assisted by prominent retail and wholesale merchants

Such investigations have proven hat, through the practice of special deliveries, half loads and unnecessary deliveries, the proportion of equipment for retail delivery requirement are unnecessarily high-that stores could well get along with less equipment, and of course, with less men, and still render a delivery service to customers which would not in any way be inconvenient.

From this investigation, the Board has recommended to all retail chants, the reduction of regular deliveries to one per day over each route

Retail stores that have adopted this recommendation have effected a great saving in their delivery expense and equipment. If action is taken by the government, necessitating every retail likewise, there would be plenty of motor truck equipment to help solve transportation community's problems, whether within the city lim-

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radical changes, but refinements of detail that make the Hudson a really finer Super-Six-a car that will see you

If you were situated as we are, could feel the pressure of demand, could note the delayed deliveris due to curtailed production, and could realize the disappointment that must come to thousands, you would place your order as far as possible in advance of your actual needs for your Super-Six.

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that fits your needs. In ap-

pointments, every detail, how-

ever minor or inconspicuous,

has been the subject of the

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its, the agricultural and dairy areas, or to connect with the suburban districts or the cities next door. To my mind, the next step after the

elimination of unnecessary deliveries, should be the forming of co-operative by fall, the country will undoubtedly delivery systems among the retailers have a network of these sources, of of every community. This would not from the producer to the point only reduce the individual delivery ex-The manufacturer pense of each concern participating, and producer are doing their share to but it would, at the same time, relieve relieve the transportation problems men and equipment for other work. of the country, and it is now squarely This in itself is of vital importance, up to the merchants, retailers and because the labor situation is such wholesalers in every community to that every available man not absolutecarry on the work of getting the goods ly necessary in the regular business and supplies from the point of distri- channels should be released to join the men in the factories and industries This great country of ours is made doing government work. It is of up of cities and towns. Each com- more importance to a community for munity is a little country or nation in its men to apply their time to producitself and it is only by the people of ing that which the community needs these communities working at a hund- than to be wasting time on work that red percent efficiency pitch can the can be saved if a more concentrated

Recently six retail stores in a south coluntary co-operation by merchants and retailers of every community thousand inhabitants formed a codelay. Without such help, the govern- result that instead of using half a ment, if the need arises, will undoubt. dozen trucks and as many men, one edly pass laws and regulations. Uncle truck and one man was found to be Sam is out to protect the American sufficient. The five trucks thus re-home by keeping it supplied, so that lieved were put to work in transport-Haines, local dealer in Chevrolet pas- his millions of workers can keep up ing other supplies that had been held

Similar results, I understand, have been secured by not only merchants into a regular chauffeur. These boys associations, but by private individuals steamships and the horse had failed munity is a patriotic movement and as who have contracted to handle the merchants' deliveries at not only saving to the merchants, but also proving a profitable financial venture

Result, the merchant pays a lower separate delivery of different articles less equipment and labor is used, releasing men and trucks needed for more important work, and with the substitution of motor trucks for horse-drawn vehicles, greater economy and dependability were assured.

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visitor in this country.

Mr. Gillespie points out that though India has a population three times as great as the United States, it has fewer automobile than are to be found much to their liking in the city of San Diego. At the present time there is very little touring out of the larger centers, because it is clear road is reached.

the city for week end trips. The use

transition of the 'syce' or native groom on its way. formerly cared for their master's horse-ran along behind wherever the far the journey, they be on hand to cipal reason that, not knowing any thing about the mechanism of the car, they leave it alone. They cost about eight dollars a month and get along ligent workman whose aim seems to dia is steadily increasing, be to take things apast and put them together so that they won't work. "Air pressure has been a nightmare

a master would go and, no matter how nearing completion on the Cimarron hold the stirrup when the horse and Nest dam is 140 feet high, rider arrived at their destination. In of which is below the river bed, many cases where the horse has been and has a radius of 155 feet. price for delivering his goods—his discarded for the motor car these boys customers do not have to wait for have proved quite adept for the prindiscarded for the motor car these boys eight feet wide at the top and forty-

to tire dealers in India. The average planes

pounds regardless of the size of the car. Power pumps in the past have been entirely unknown. In one case where we installed an automatic pump the native like the idea so well that they put the required pressure in a lot of old tires that had been running underinflated for months previous. . We sold an outfit of this kind to one Interesting information concerning dealer and a week later tried to incerning automobile matters in India is stall one with his neighbor across the given by A. T. Gillespie, representative street. He objected very strenuously of the United States Tire company in to our modern methods and pointed the Far East, who has been a recent out that the other men blew up about half the tires he inflated. Notwith standing this, the power pumps meet with the approval of drivers who find

this method of inflating their tires

pressure is about thirty to forty

"India boasts of one of the longest continuous roads in the world, about 2,000 miles, and there still remains necessary to drive through miles of stretches of roadway built by Alexcrowded villages before anything like ander at the time of his Conquest. As a rule the roads are fairly level and smooth, paved in many places with In a town like Calcutta, in which laterite or crushed marble stone. The here are more than 6000 machines, bulk of the traffic is carried by means not more than a half dozen cars leave of heavy, cumbersome ox carts, with wheels about six feet in diameter and of the motor car is restricted largely roofed over like houses. These carts to business purposes and travel about are built strong enough to withstand the onslaught of speedsters and a "Labor is cheap," says Mr. Gilles- collision with one of these generally pie, "and it is interesting to note the lays up the car while the cart goes

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The distillation of wood from In an industry that dia's forests is an industry that must one day be taken up seriously better with a car than the most intel- The demand for oils and tar in in-

Castor oil has been found to be & very satisfactory lubricant for aero-

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